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ALFERNESS et al.(10) **Pub. No.: US 2011/0106193 A1**(43) **Pub. Date: May 5, 2011**(54) **CARDIAC DISEASE TREATMENT AND
DEVICE****Publication Classification**(75) Inventors: **Clifton A. ALFERNESS**, Port
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Williamstown (AU)(51) **Int. Cl.**
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(57) **ABSTRACT**(73) Assignee: **MARDIL, INC.**, Orono, MN (US)(21) Appl. No.: **12/987,430**(22) Filed: **Jan. 10, 2011****Related U.S. Application Data**(63) Continuation of application No. 12/633,434, filed on
Dec. 8, 2009, now abandoned, which is a continuation
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now abandoned, which is a continuation of application
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662.

A jacket of biological compatible material has an internal volume dimensioned for an apex of the heart to be inserted into the volume and for the jacket to be slipped over the heart. The jacket has a longitudinal dimension between upper and lower ends sufficient for the jacket to surround a lower portion of the heart with the jacket surrounding a valvular annulus of the heart and further surrounding the lower portion to cover at least the ventricular lower extremities of the heart. The jacket is adapted to be secured to the heart with the jacket surrounding at least the valvular annulus and the ventricular lower extremities. The jacket is adjustable on the heart to snugly conform to an external geometry of the heart and assume a maximum adjusted volume for the jacket to constrain circumferential expansion of the heart beyond the maximum adjusted volume during diastole and to permit unimpeded contraction of the heart during systole.

